

well structures formed over said substrate to form a periodic array to optically diffract light at a wavelength absorbed by said plurality of quantum-well structures,

wherein each quantum-well structure includes, a first conductive contact layer formed over said substrate, a quantum-well stack having a plurality of alternating quantum-well layers formed in parallel over said first conductive contact layer and operating to absorb radiation polarized perpendicularly to said quantum-well layers, and a second conductive contact layer formed over said quantum-well stack, and wherein each quantum-well layer in each quantum-well structure is continuous without a void. --

In the drawings:

The drawings have been amended to correct the informalities and the clerical errors as indicated in the office action. Changes made in the drawings are indicated by red ink in marked copies. Please substitute the current drawings with a new set of formal drawings incorporating the marked changes.